

State of Idaho WLAP Operator Certification Needs-to-Know Criteria

The following *Needs-to-Know Criteria*¹ represent areas of knowledge and skills with which a WLAP operator should be proficient after studying this manual. Some criteria are presented as broad areas of understanding, while others are posed as questions; all are addressed near the pages indicated by the far right column.



As you study the manual, look for the *Needs to Know* icon in the left margin, indicating a section that addresses a Needs to Know Criterion.

Section 1: Wastewater Characteristics and Loading Fundamentals

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Total, suspended, and dissolved solids	1-3
Pathogens	1-5
Total coliform bacteria	1-5
Parameter used by the Idaho Department of Environmental Quality (DEQ) as an indicator of potential pathogen levels in wastewater effluent	1-5
Nitrogen cycle	1-7
Hydraulic loading rate	1-12
Differences between <i>growing</i> and <i>non-growing season</i> hydraulic loading rates	1-12
Nitrogen loading rate	1-13
Phosphorus loading rate	1-13
COD loading rate	1-14
Land Limiting Constituent (LLC)	1-14
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Section 2: Soils & Agronomy

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¹ For more on how these topics were selected, see *How This Manual Was Developed*, page xviii.

² The Needs to Know Criteria can be found close to the page listed.

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Soil pH effect on plant growth and crop yield	2-27
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Saturation, field capacity, wilting point, plant available water content, available water-holding capacity, infiltration, and permeability	2-18
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Impacts from runoff	3-4
Surface ponding	3-5
Effects of ponding on ground water	3-5
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